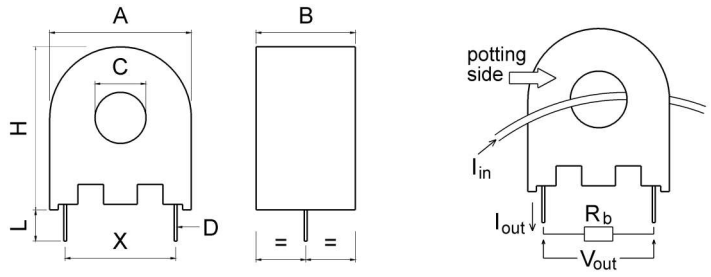
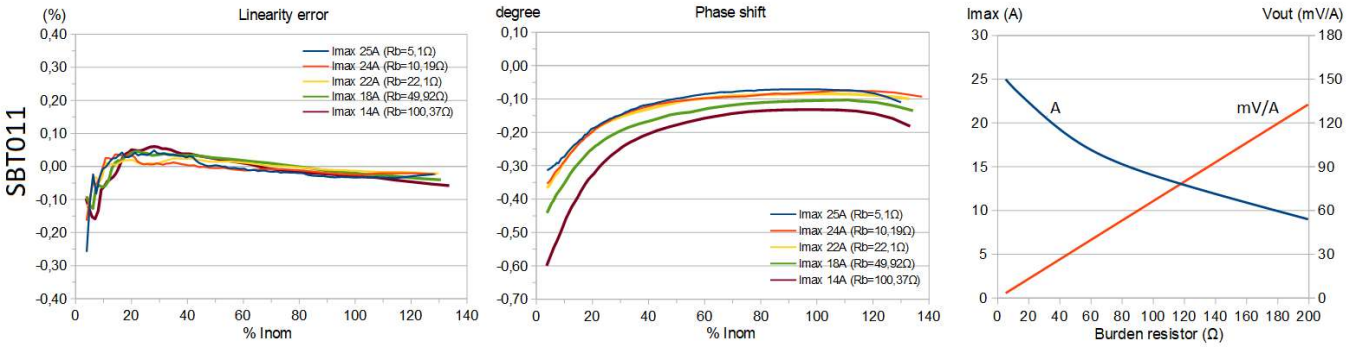
SBT series - 50/60Hz current sensor - 22A

- High precision 50/60Hz current measuring transformers
- Encapsulated in UL94/V-0 epoxy resin
- High insulation between primary/secondary
- Custom versions on request

22A

Code	Max Input Current[1]	Nom Input Current[1]	Accuracy Class[2]	Burden resistor[3]	Sec turns	Dielectric strength[4]
SBT011	22A	18.3A	0.5	22 Ω	1500	4KV

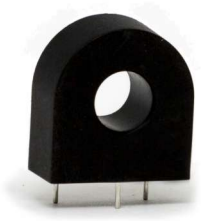
Dimensions	mm	Drawing	.stp file Download
A max	17.5		
B max	9.7		
H max	21.0		
C typ (Ø)	5.0		
X typ	12.7		
L min	3.0		
D typ (Ø)	0.8		



[1] *Accuracy range 5...120% of "Nom Input Current". Currents up to "Max Input Current" x 1.2 can be applied continuously.*
Low current range measurement: it is suggested to increase primary turns number. It reduce proportionally Max/Nom input current and preserve the accuracy typical curves.
[2] *The accuracy class above indicated means that the linearity and phase shift errors are within the tolerances defined on tab.201 of IEC 61869-2, tested at 50Hz-20°C ambient temperature. The standard has not been fully applied since these items are designed as components of electronic equipment.*
[3] *Burden resistor values different than suggested values can be applied. It will affect Max/Nom current, output voltage and precision. See the typical graphs for reference.*
[4] *Between sec pins/primary hole internal surface.*
[nb] *The user should perform any compliance verification to technical and safety standard requirement according to the application field.*

SBT series - 50/60Hz current sensor - 106A

- Very high precision 50/60Hz current measuring transformers
- High output signal level to reduce noise-signal ratio
- High repeatability, actual curves close to typical
- Encapsulated in UL94/V-0 epoxy resin
- High insulation between primary/secondary
- Custom versions on request

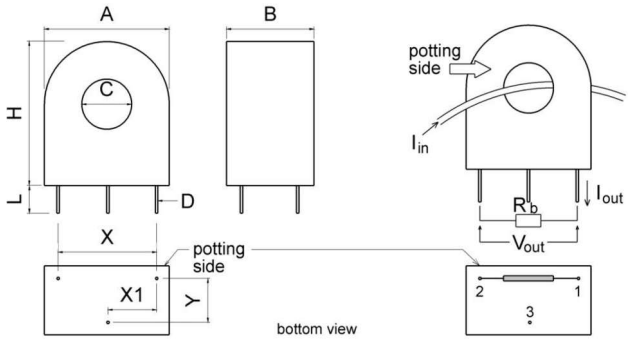


106A

Code	Max Input Current[1]	Nom Input Current[1]	Accuracy Class[2]	Burden resistor[3]	Sec. turns	Dielectric strength [4]
SBT012	106A	88.3A	0.1	10 Ω	2500	4KV

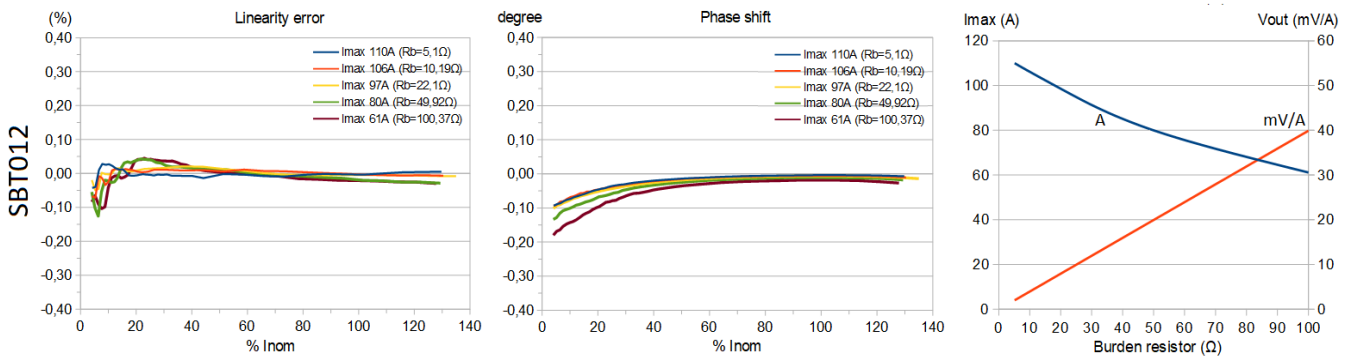
Dimensions	mm
A max	24.3
B max	11.7
H max	25.5
C typ (Ø)	9.5
X typ	15.24
X1 typ	7.62
Y typ	7.62
L min	3.5
D typ (Ø)	0.8

Drawing



Pin 3 only for mechanical connection

.stp file Download



[1] *Accuracy range 5...120% of "Nom Input Current". Currents up to "Max Input Current" x 1.2 can be applied continuously.*
Low current range measurement: it is suggested to increase primary turns number. It reduce proportionally Max/Nom input current and preserve the accuracy typical curves.
[2] *The accuracy class above indicated means that the linearity and phase shift errors are within the tolerances defined on tab.201 of IEC 61869-2, tested at 50Hz-20°C ambient temperature. The standard has not been fully applied since these items are designed as components of electronic equipment..*
[3] *Burden resistor values different than suggested values can be applied. It will affect Max/Nom current, output voltage and precision. See the typical graphs for reference.*
[4] *Between sec pins/primary hole internal surface.*
[nb] *The user should perform any compliance verification to technical and safety standard requirement according to the application field.*

SBT series - 50/60Hz current sensor - 120A

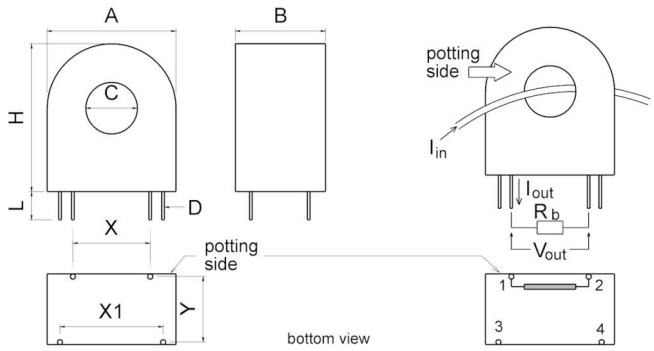
- Very high precision 50/60Hz current measuring transformers
- High output signal level to reduce noise-signal ratio
- High repeatability, actual curves close to typical
- Encapsulated in UL94/V-0 epoxy resin
- High insulation between primary/secondary
- Custom versions on request

120A

Code	Max Input Current[1]	Nom Input Current[1]	Accuracy Class[2]	Burden resistor[3]	Sec. turns	Dielectric strength [4]
SBT005	120A	100A	0.1	5 Ω	2000	4KV

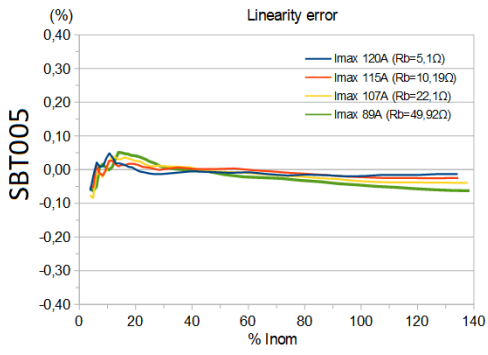
Dimensions	mm
A max	24.8
B max	13.0
H max	25.4
C typ (Ø)	9.5
X typ	14.8
X1 typ	19.0
Y typ	11.0
L min	3.5
D typ (Ø)	1.0

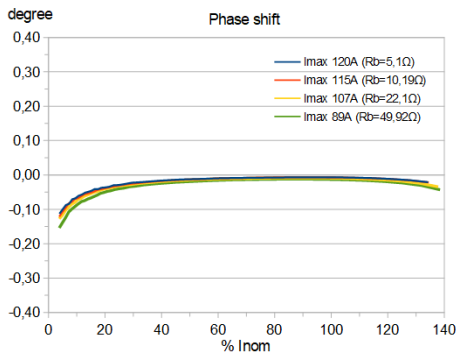
Drawing

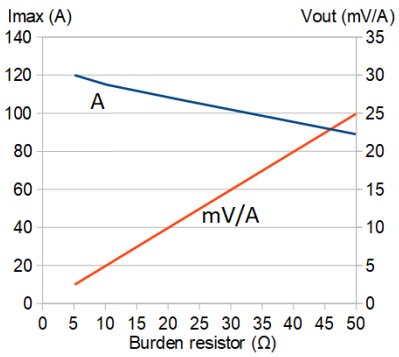


pins 3 and 4 only for mechanical connection

.stp file Download







[1] *Accuracy range 5...120% of "Nom Input Current". Currents up to "Max Input Current" x 1.2 can be applied continuously.*
Low current range measurement: it is suggested to increase primary turns number. It reduce proportionally Max/Nom input current and preserve the accuracy typical curves.
[2] *The accuracy class above indicated means that the linearity and phase shift errors are within the tolerances defined on tab.201 of IEC 61869-2, tested at 50Hz-20°C ambient temperature. The standard has not been fully applied since these items are designed as components of electronic equipment.*
[3] *Burden resistor values different than suggested values can be applied. It will affect Max/Nom current, output voltage and precision. See the typical graphs for reference.*
[4] *Between sec pins/primary hole internal surface.*
[nb] *The user should perform any compliance verification to technical and safety standard requirement according to the application field.*

SBT series – 50/60Hz three-phase current sensor – 3x250A

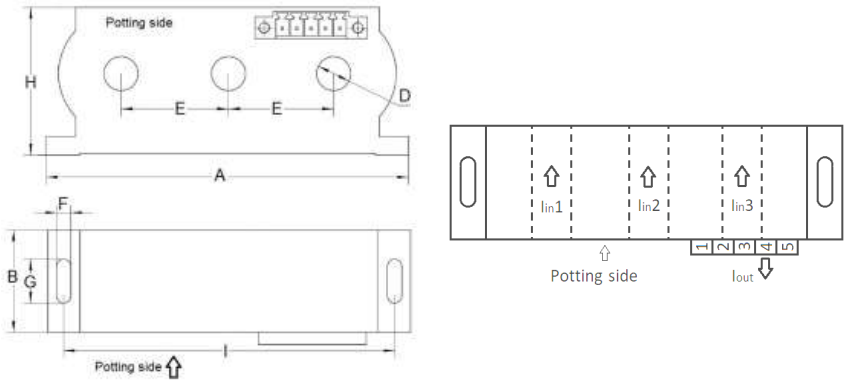
- Very high precision 50/60Hz three-phase current measuring transformers
- High output signal level to reduce noise-signal ratio
- High repeatability, actual curves close to typical
- Encapsulated in UL94/V-0 epoxy resin
- High insulation between primary/secondary
- Custom versions on request

250A

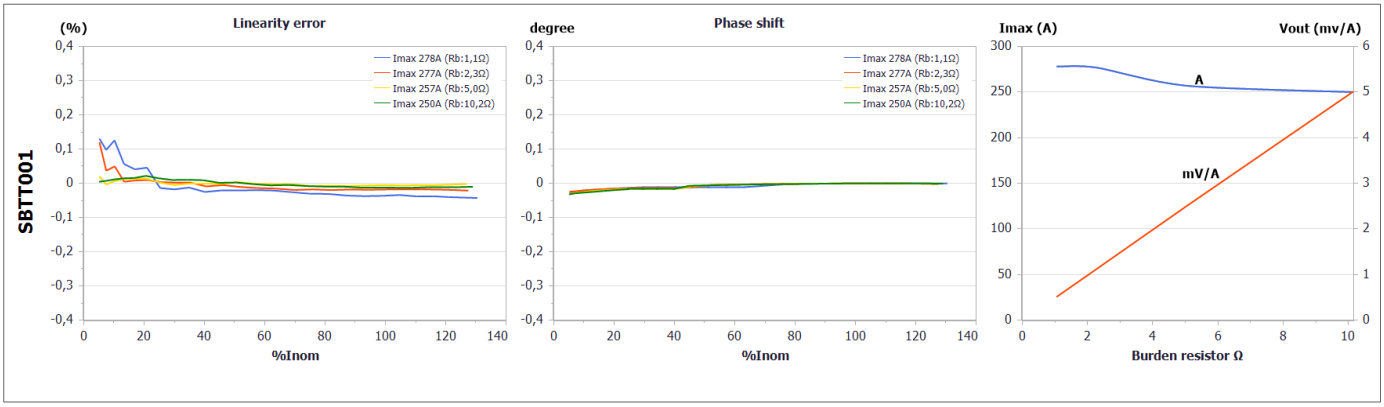
Code	Max Input Current[1]	Nom Input Current[1]	Accuracy Class[2]	Burden resistor[3]	Sec. turns	Dielectric strength [4]
SBTT001	250A	208.3A	0.1	10 Ω	3x 2000	3KV

Dimensions	mm
A max	100.5
B max	28.7
H max	39.6
D typ (Ø)	9.5
E typ	30.0
F typ	4.0
G typ	12.0
I typ (Ø)	91.0

Drawing



.stp file Download



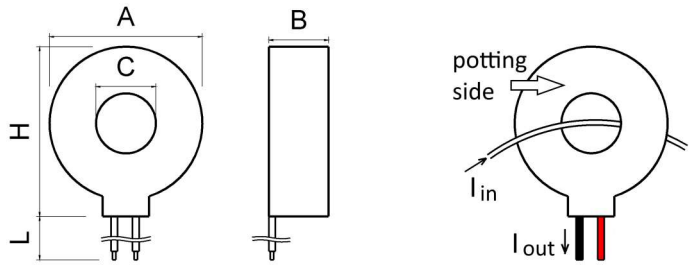
[1] *Accuracy range 5...120% of "Nom Input Current". Currents up to "Max Input Current" x 1.2 can be applied continuously.*
Low current range measurement: it is suggested to increase primary turns number. It reduce proportionally Max/Nom input current and preserve the accuracy typical curves.
[2] *The accuracy class above indicated means that the linearity and phase shift errors are within the tolerances defined on tab.201 of IEC 61869-2, tested at 50Hz-20°C ambient temperature. The standard has not been fully applied since these items are designed as components of electronic equipment.*
[3] *Burden resistor values different than suggested values can be applied. It will affect Max/Nom current, output voltage and precision. See the typical graphs for reference.*
[4] *Between sec pins/primary hole internal surface.*
[nb] *The user should perform any compliance verification to technical and safety standard requirement according to the application field.*

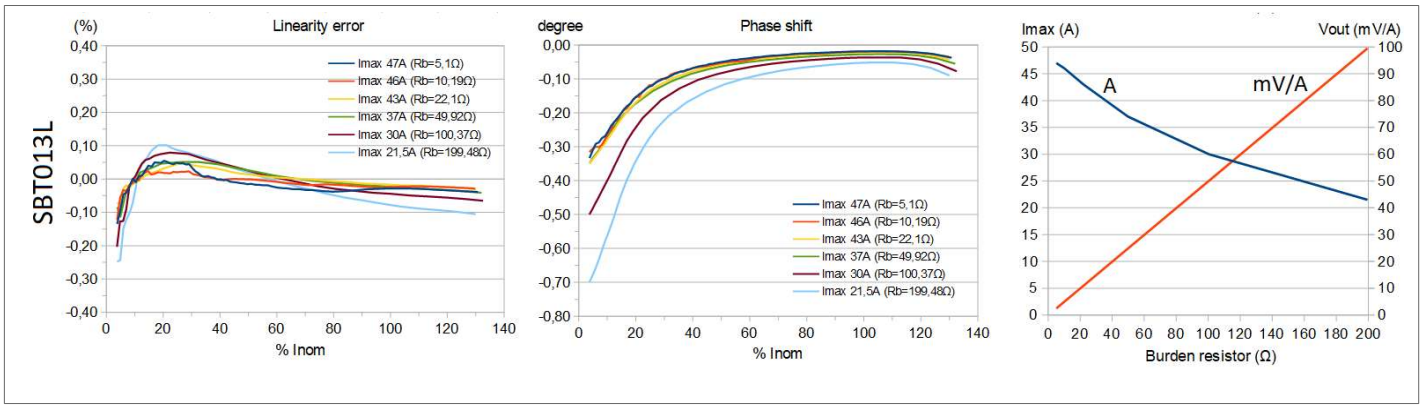
SBT series - 50/60Hz current sensor – 46A

- High precision 50/60Hz leaded current measuring transformers
- Encapsulated in UL94/V-0 epoxy resin
- High insulation between primary/secondary
- Custom versions on request

46A

Code	Max Input Current[1]	Nom Input Current[1]	Accuracy Class[2]	Burden resistor[3]	Sec. turns	Dielectric strength [4]
SBT013L	46A	38.3A	0.5	10 Ω	2000	4KV

Dimensions	mm	Drawing	.stp file Download
A max	23.0		
B max	10.4		
H max	26.5		
C typ (Ø)	8.9		
L typ	105.0		



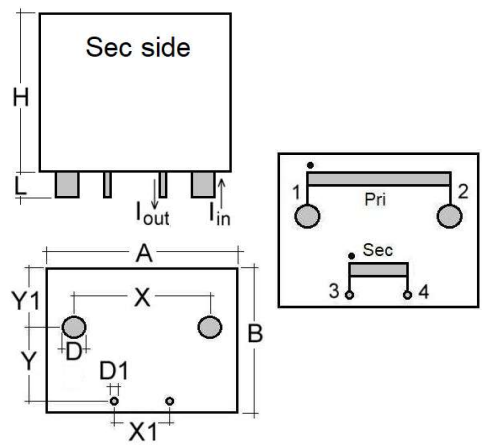
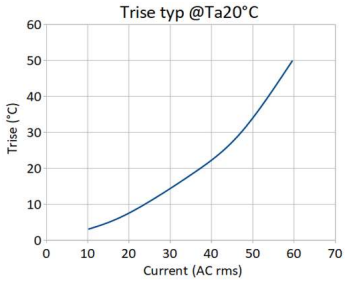
[1] *Accuracy range 5...120% of "Nom Input Current". Currents up to "Max Input Current" x 1.2 can be applied continuously.*
Low current range measurement: it is suggested to increase primary turns number. It reduce proportionally Max/Nom input current and preserve the accuracy typical curves.
[2] *The accuracy class above indicated means that the linearity and phase shift errors are within the tolerances defined on tab.201 of IEC 61869-2, tested at 50Hz-20°C ambient temperature. The standard has not been fully applied since these items are designed as components of electronic equipment..*
[3] *Burden resistor values different than suggested values can be applied. It will affect Max/Nom current, output voltage and precision. See the typical graphs for reference.*
[4] *Between sec pins/primary hole internal surface.*
[nb] *The user should perform any compliance verification to technical and safety standard requirement according to the application field.*

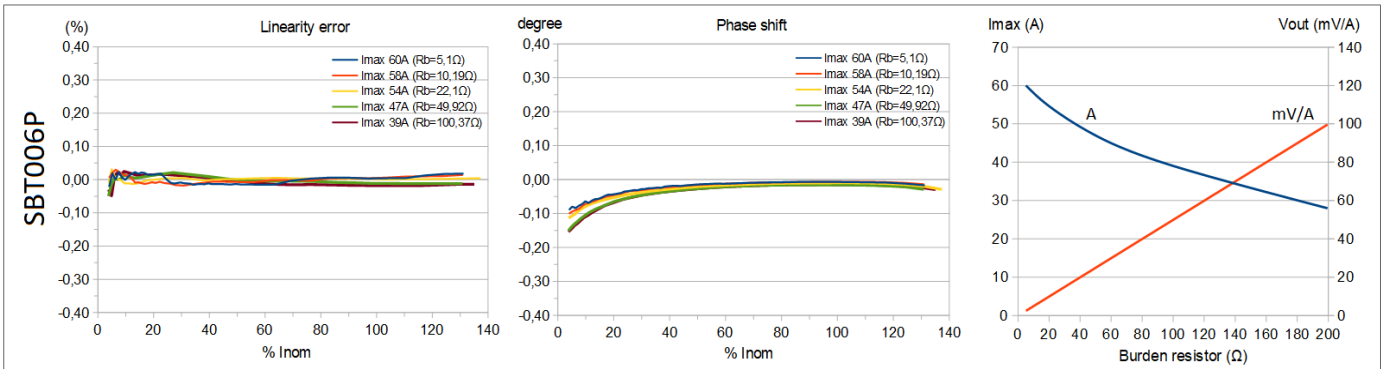
SBT series - 50/60Hz current sensor – 58A

- High precision 50/60Hz current measuring transformers
- Built-in single-turn primary with very low DCR
- Encapsulated in UL94/V-0 epoxy resin
- High insulation between primary/secondary
- Custom versions on request

58A

Code	Max Input Current[1]	Nom Input Current[1]	Accuracy Class[2]	Burden resistor[3]	Sec. turns	Dielectric strength [4]
SBT006P	58A	48.3A	0.2	10 Ω	2000	3KV

Dimensions	mm	Drawing	Trise	.stp file Download
A max	25.8			
B max	18.5			
H max	20.5			
X typ	19.0			
X1 typ	6.0			
Y typ	7.0			
Y1 typ	9.2			
L min	2.5			
D typ (Ø)	3.5			
D1 typ (Ø)	0.8			



[1] *Accuracy range 5...120% of "Nom Input Current". Currents up to "Max Input Current" x 1.2 can be applied continuously.*
Low current range measurement: it is suggested to increase primary turns number. It reduce proportionally Max/Nom input current and preserve the accuracy typical curves.
[2] *The accuracy class above indicated means that the linearity and phase shift errors are within the tolerances defined on tab.201 of IEC 61869-2, tested at 50Hz-20°C ambient temperature. The standard has not been fully applied since these items are designed as components of electronic equipment.*
[3] *Burden resistor values different than suggested values can be applied. It will affect Max/Nom current, output voltage and precision. See the typical graphs for reference.*
[4] *Between pri/sec.*
[nb] *The user should perform any compliance verification to technical and safety standard requirement according to the application field.*